

SCIENCE and TECHNOLOGY

"If I have seen further it is by standing on the shoulders of giants."
-Sir Isaac Newton

Technology is the practical application of scientific knowledge and, like science itself, new technologies build upon previous discoveries.

Directions:

Part 1

1. With your partner, think of one example of technology (e.g., phone, pencil, computer, television, car, shoe, etc.) and try to think of the knowledge necessary to develop that technology.
2. **Make a concept map** of all the questions that would need to be answered to develop that technology. (See the example below...) ***bonus – add in environmental issues as necessary!*
3. Use a separate sheet of paper to make your concept map. This should require you to really THINK!!!! If you get stuck or think you are done, ask your teacher to check your work.

Part 2

When your concept map is done:

4. **Answer the following questions in a typed essay:**
 - a. What do you think will be the "next step" in the evolution of the technology you described?
 - b. How could it be made better?
 - c. How does the scientific method fit into this process of "making it better"?
 - d. What questions will need to be answered to take that next step? Explain your answer!
 - e. What environmental consequences are there for the improvement of your technology?
 - f. Sketch & Label a picture of the more advanced tech!
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An incomplete example for a *pencil* is shown below:

